

## PATENT COOPERATION TREATY

## PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>P358PC00</b>	<b>FOR FURTHER ACTION</b> See Form PCT/IPEA/416	
International application No. <b>PCT/SE2003/000011</b>	International filing date (day/month/year) <b>08-01-2003</b>	Priority date (day/month/year) <b>-</b>
International Patent Classification (IPC) or national classification and IPC <b>G01S 5/14, G01S 5/00</b>		
Applicant <b>Envirotainer Engineering AB et al</b>		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 5 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
  - a. ☐ (sent to the applicant and to the International Bureau) a total of \_\_\_\_\_ sheets, as follows:
    - ☐ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
    - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
  - b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items:
 

<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

Date of submission of the demand <b>05-08-2004</b>	Date of completion of this report <b>04-04-2005</b>
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer  <b>Gordana Ninkovic/MN</b> Telephone No. +46 8 782 25 00

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2003/000011

## Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This report is based on a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of:

- ☐ international search (under Rules 12.3 and 23.1(b))  
☐ publication of the international application (under Rule 12.4)  
☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):*

☒ the international application as originally filed/furnished

☐ the description:

pages \_\_\_\_\_ as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the claims:

pages \_\_\_\_\_ as originally filed/furnished

pages\* \_\_\_\_\_ as amended (together with any statement) under Article 19

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the drawings:

pages \_\_\_\_\_ as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages \_\_\_\_\_

☐ the claims, Nos. \_\_\_\_\_

☐ the drawings, sheets/figs \_\_\_\_\_

☐ the sequence listing (*specify*): \_\_\_\_\_

☐ any table(s) related to the sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages \_\_\_\_\_

☐ the claims, Nos. \_\_\_\_\_

☐ the drawings, sheets/figs \_\_\_\_\_

☐ the sequence listing (*specify*): \_\_\_\_\_

☐ any table(s) related to the sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

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**Box No. V** Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	<u>1-14</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-14</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-14</u>	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

A US 2002017989 A1 (IAN J.FORSTER ET AL), 14 February 2002  
B US 2001052850 A1 (HARRY I.ZIMMERMAN), 20 December 2001  
C EP 0984418 A2 (N.V. NEDERLANDSCHE APPARATENFABRIEK NEDAP),  
8 March 2000  
D 2002057192 A1 (JAMES G.EAGLESON ET AL), 16 May 2002

Document A is reconsidered to represent the state of the art, together with documents B-D.

Present invention discloses a tracking device for obtaining container position information, which is communicated wirelessly to a remote site. It is determined if the container is in proximity to an aircraft by detection of electromagnetic field, and if so, the communication is disabled. Reactivating of the communication is allowed if simultaneously no electromagnetic field is detected and the tracking device is able to determine a container position.

Document A discloses a method for deactivation of field-emitting electronic device upon detection of a transportation vessel, such as aircraft. The electronic device contains a field-emitting device that may interfere with the transportation vessel systems. The electronic device is capable of deactivating the power from the field-emitting device when the transportation vessel is detected, so that the field-emitting device does not interfere with the transportation vessel.

.../...

## Supplemental Box

In case the space in any of the preceding boxes is not sufficient.  
Continuation of: BOX V

The electronic device, comprising a control unit, may be coupled to one or more sensors that are used to determine if the electronic device is proximate to the transportation vessel, so that the field-emitting device can be decoupled from power. In one embodiment, the electronic device contains also a tracking device and is associated with a container for shipping of goods. The tracking device receives information regarding the location of the container, and the electronic device communicates this information for tracking purposes. The tracking device may be a field-emitting device that is decoupled from power when the proximity of a transportation vessel is detected.

The field-emitting device can also be reactivated when some conditions are fulfilled.

For example, when positioning information is received successfully again by the tracking device, after previous deactivation, the field-emitting device is reactivated and resumes the transmission of positioning information concerning the location of the electronic device to the remote site.

In the other case, the control unit determines if the electronic device is outside the proximity of the aircraft by checking status of sensors and waits until the electronic device is outside the proximity of the aircraft, at which time the electronic device reactivates previously deactivated field-emitting device.

In the third case, the control unit determines if the electronic device is to be disabled for a specified period of time. Then, the control unit waits until the specified time has lapsed before the electronic device reactivates previously deactivated field-emitting device. The control system can also determine if the deactivation period should be based on the itinerary of the electronic device. For instance, the desired period of deactivation may extend until the aircraft is scheduled to land or reach its final destination. Even combination of different events is possible.

(See paragraphs 0006-0008; 0064-0068; fig. 1-3,7).

However, none of the cited documents discloses a device and a method where the selection of two proximity methods are combined in a decision for reactivation and where the first proximity method is based on measuring electromagnetic fields from the aircraft, and the other is measuring any contact with any external positioning system.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: BOX V

In view of the cited documents such a method and a device cannot be considered obvious to a person skilled in the art.

Therefore the invention claimed in claims 1 - 14 is novel and considered to involve an inventive step.

The invention is considered to be industrially applicable.